

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/160,965		12/02/1993	JAMES M. MUSSER	06239007001	2506
26271	7590	02/26/2003			
		WORSKI, LLP	EXAMINER		
1301 MCKII SUITE 5100			HINES, JANA A		
HOUSTON, TX 77010-3095					
				ART UNIT	PAPER NUMBER
				1645	61
			DATE MAILED: 02/26/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	•	08/160,965	MUSSER ET AL.				
	Office Action Summary	Examin r	Art Unit				
	•	Ja-Na Hines	1645				
	The MAILING DATE of this communication app						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on 30 C	October 2002 .					
2a)⊠	This action is FINAL . 2b) This	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
,	Claim(s) 1,4-35 and 45-47 is/are pending in th						
	4a) Of the above claim(s) is/are withdrav	vn from consideration.					
·	Claim(s) is/are allowed.						
·	Claim(s) 1.4-35 and 45-47 is/are rejected.						
	Claim(s) <u>45</u> is/are objected to.	- alaatian raaviramant					
	Claim(s) are subject to restriction and/or ion Papers	r election requirement.					
9) The specification is objected to by the Examiner.							
10)🛛	The drawing(s) filed on 30 October 2002 is/are:	a)⊠ accepted or b)☐ ob	jected to by the Examiner.				
	Applicant may not request that any objection to the						
11)[The proposed drawing correction filed on	, = ,	disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				

Application/Control Number: 08/160,965

Art Unit: 1645

DETAILED ACTION

Amendment Entry

1. The amendment filed October 30, 2002 has been entered. Claims 36-44 have been cancelled. Claims 1, 4-6, 7, 9, 11, 13, 15, 17-18, 20, 22, 24-29 and -45 46 have been amended. Claims 1, 4-35 and 45-47 are under consideration in this office action.

Specification

2. The disclosure is objected to because of the following informalities: Page 18 refers to "coinnecticut". Appropriate correction is required.

Claim Objections

3. Claim 45 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 1. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Withdrawal of Rejections

4. The new matter and enablememnt rejection of claims 1, 4-35 and 4**5**-47 under 35 U.S.C. 112, first paragraph is withdrawn in view of applicants' amendment and arguments.

Response to Amendment

5. Applicant's arguments filed October 30, 2002 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. The written description rejection of claims 1, 4-35 and 4**5**-47 under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention is maintained for reasons already of record.

The amended claims are now drawn to an immunogenic composition and method of producing an immune response comprising a cysteine protease comprising at least one amino acid substitution and said substitution occurs at positions 145, 185, 192, 340, 356 and 357. However, the claims and specification appear to fail to recite the reference sequence from which the amino acid substitutions are drawn. The sequence from which the specific amino acid mutations are drawn has not been disclosed; and therefore the written description is not commensurate in scope with the claims drawn to specific amino acid substitutions. Neither applicants' amendments nor arguments have addressed this issue therefore the rejection is maintained.

Art Unit: 1645

The instant specification fails to provide the identity of the entire cysteine protease used method of producing an immune response comprising using a cysteine protease comprising at least one amino acid substitution and said substitution occurs at positions 145, 185, 192, 340, 356 and 357. There is no description of the reference cysteine protease, neither do the claims recite the base sequence that is being mutated. Without knowing the reference sequence, one cannot really know the significance of substituting lys145 or the like.

Vas-Cath Inc. V. Mahurkar, 19 USPQ2d 1111, clearly states that "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117). The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See Vas-Cath at page 1116).

Adequate written description requires more than a mere statement that it is part of the invention and a reference to a potential method of using. The reference sequence referred too is required. Thus a precise description of the reference sequence is necessary. Thus the specification is insufficient to support the instant claims as provided by the Interim Written Description Guidelines published in the June 15, 1998 Federal Register at Volume 63, Number 114, pages 32639-32645.

In view of these considerations, a person skilled in the art would not have viewed the teachings of the specification sufficient to show that applicants were in possession

Art Unit: 1645

of a immunogenic composition comprising the mutated cysteine protease and method of producing an immune response as asserted in the specification as instantly claimed.

New Grounds of Rejection

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

7. Claims 1, 4-35 and 45-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Acronyms like Lys145, Gln185, Cys192, His340, Asn36 and Trp357 must be spelled out when used for the first time in a chain of claims.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Application/Control Number: 08/160,965

Art Unit: 1645

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ja-Na Hines whose telephone number is

703-305-0487. The examiner can normally be reached on Monday-Thursday and

alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynette Smith can be reached on 703-308-3909. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-4242

for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is

703-308-0196.

Ja-Na Hines (/// February 11, 2003

TECHNOLOGY CENTER 1600

Page 6